



*IFW*  
PATENT

Attorney Docket No.: AUB-02401

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Group Art Unit:  
Howard Thomas ) Examiner: Arti Singh  
Patent No.: 6,846,545 B2 )  
Serial No.: 10/055,468 )  
Issued Date: January 25, 2005 )  
Filed: January 23, 2002 )  
For: **IMPACT ABSORBING MATERIAL** ) TRANSMITTAL LETTER  
Customer No. 28960 )  
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MS: Post Issue  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed please find a Power of Attorney and Revocation of Prior Powers of Attorney for filing in the U.S. Patent and Trademark Office. Also enclosed is a table Exhibit A.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1275. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Respectfully submitted,  
HAVERSTOCK & OWENS LLP

Dated: September 27, 2006

By:

*Jonathan O. Owens*  
Jonathan O. Owens  
Reg No.: 37,902

Attorneys for Applicants

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450

HAVERSTOCK & OWENS LLP.

Date: 9/27/06

By:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

See Exhibit A

**POWER OF ATTORNEY AND  
REVOCATION OF PRIOR  
POWERS OF ATTORNEY**

Customer No.: 28960

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P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Auburn University, owner of record of the applications and patents listed on Exhibit A, hereby revokes all prior powers of attorney which may have been filed with these applications and patents, and appoints the members of the firm of HAVERSTOCK & OWENS LLP, a firm including Jonathan O. Owens (Reg. No. 37,902) and Thomas B. Haverstock (Reg. No. 32,571), as its attorneys with full power of substitution to transact all business in the Patent and Trademark Office in connection therewith.

Please direct all correspondence regarding these applications and patents to:

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Dated: 9/13/06

By: John D. Thornton

Name: John D. Thornton

Title: Director, Office of Technology Transfer

## Exhibit A

Attorney Docket No.:	Inventor(s)	Description
AUB-02100 (2A09 1-190)	Shelby Worley Michael Eknoian Yanjun Li	U.S. Patent No.: 5,902,818 (application no 08/987,698 filed 12/9/97) Issued: 5/11/99 Entitled: SURFACE ACTIVE N-HALAMINE COMPOUNDS
AUB-02101 (2A09 1-191)	Shelby Worley Michael Eknoian Yanjun Li	U.S. Patent No.: 6,162,452 (application no 09/246,217 filed 2/8/99) Issued: 12/19/00 Entitled: SURFACE ACTIVE N-HALAMINE COMPOUNDS
AUB-02102 (2A09 1-192)	Shelby Worley Michael Eknoian Yanjun Li	U.S. Patent No.: 6,469,177 B1 (application no 09/710,090 filed 11/10/00) Issued: 10/22/02 Entitled: SURFACE ACTIVE N-HALAMINE COMPOUNDS
AUB-02103 (2A09 1-193)	Shelby Worley Michael Eknoian Yanjun Li	U.S. Patent Application No.: 10/235,370 Filed: 9/3/02 Entitled: SURFACE ACTIVE N-HALAMINE COMPOUNDS
AUB-02200	Shelby Worley Royall Broughton Jeffrey Williams	U.S. Patent Application No.: 10/295,001 Filed: 11/13/02 Entitled: USE OF A N-HALAMINE BIOCIDAL POLYMER FOR ODOR CONTROL



Attorney Docket No.:	Inventor(s)	Description
AUB-02300 (2A09 1-240)	Vitaly Vodyanoy	Prov. Patent Appl. No.: 60/250,800 Filed: 12/1/00 Entitled: <b>OPTICAL MICROSCOPE OF HIGH RESOLUTION</b>
AUB-02301 (2A09 1-241)	Vitaly Vodyanoy William Neely	U.S. Patent No.: 6,690,509 B2 (application no. 10/008,588 filed 12/3/01) Issued: 2/10/04 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>
AUB-02301 WO (2A09 2-241)		PCT Appl. No.: PCT/US01/46397 Int'l Filing Date: 12/3/01 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>
AUB-02302 (2A09 1-242)	Vitaly Vodyanoy	U.S. Patent No.: 6,992,819 B2 (application no. 10/462,068 filed 6/13/03) Issued: 1/31/06 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE FOR QUICK DETECTION OF PATHOGENS</b>
AUB-02302 WO (2A09 2-242)		PCT Appl. No.: PCT/US2004/017948 Int'l Filing Date: 6/7/04 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>

Attorney Docket No.:	Inventor(s)	Description
AUB-02303 (2A09 1-243)	Vitaly Vodyanoy William Neely	U.S. Patent No.: 6,865,013 B2 (application no. 10/674,783 filed 9/30/03) Issued: 3/8/05 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>
AUB-02304 (2A09 1-244)	Vitaly Vodyanoy William Neely	U.S. Patent Appl. No.: 11/068,223 Filed: 2/28/05 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>
AUB-02400	Howard Thomas	Prov. Patent Appl. No.: 60/263,644 Filed: 1/24/01 Entitled: <b>NONWOVEN FOR THE REDUCTION OF BODY TRAUMA CAUSED BY IMPACT</b>
AUB-02401 (2P07 1-021)	Howard Thomas	U.S. Patent No.: 6,846,545 B2 (application no. 10/055,468 filed 1/23/02) Issued: 1/25/05 Entitled: <b>IMPACT ABSORBING MATERIAL</b>
AUB-02401 WO (2P07 2-021)		PCT Appl. No.: PCT/US02/01803 Int'l Filing Date: 1/23/02 Entitled: <b>IMPACT ABSORBING MATERIAL</b>
AUB-02500	Kenny Brock	Prov. Patent Appl. No.: 60/270,098 Filed: 2/20/01 Entitled: <b>MOUSE MODEL FOR SCREENING ANTIVIRAL COMPOUNDS AGAINST HEPATITIS C VIRUS</b>

Attorney Docket No.:	Inventor(s)	Description
AUB-02600 (2A09 1-010)	Jeremy Corpening Chris Reasonover Ronald Barrett	<p>Prov. Patent Appl. No.: 60/278,790 Filed: 3/26/01 Entitled: AN EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF BOUNDARY LAYER REATTACHMENT USING PIEZOELECTRIC SYNTHETIC JET ACTUATORS</p>
AUB-02601 (2A09 1-011)	Ronald Barrett Chris Reasonover Jeremy Corpening	<p>U.S. Patent No.: 6,796,533 B2 (application No. 10/104,914 filed 3/22/02) Issued: 9/28/04 Entitled: METHOD AND APPARATUS FOR BOUNDARY LAYER REATTACHMENT USING PIEZOELECTRIC SYNTHETIC JET ACTUATORS</p>
AUB-02700 (2A09 1-041)	Vitaly Vodyanoy Edward Morrison	<p>U.S. Patent No.: 6,979,298 B2 (application no. 10/159,800 filed 5/31/02) Issued: 12/27/05 Entitled: APPARATUS AND METHOD FOR THE MEASUREMENT OF THE AERODYNAMICS OF OLFACTION IN ANIMALS AND MAN</p>
AUB-02800 (2A09 1-051)	Vitaly Vodyanoy Solomon Yilma Ting To Lo Alexander Samoylov	<p>U.S. Patent No.: 6,788,071 B2 (application no. 10/201,746 filed 7/23/02) Issued: 9/7/04 Entitled: METHOD AND APPARATUS FOR GENERATING A VOLTAGE ACROSS A MEMBRANE</p>

Attorney Docket No.:	Inventor(s)	Description
AUB-02900 (2A09 1-210)	Shelby Worley Yongjun Chen	U.S. Patent No.: 6,548,054 B2 (application no. 09/948,945 filed 9/6/01) Issued: 4/15/03 Entitled: BIOCIDAL POLYSTYRENE HYDANTOIN PARTICLES
AUB-02901 (2A09 1-211)	Shelby Worley Yongjun Chen	U.S. Patent No.: 6,852,312 B2 (application no. 10/272,264 filed 10/15/02) Issued: 2/8/05 Entitled: BIOCIDAL POLYSTYRENE HYDANTOIN PARTICLES
AUB-03000 (2A09 1-061)	William Confer Richard Chapman	U.S. Patent No.: 6,721,452 B2 (application no. 10/242,104 filed 9/12/02) Issued: 4/13/04 Entitled: SYSTEM AND METHOD OF HANDWRITTEN CHARACTER RECOGNITION
AUB-03000WO (2A09 2-061)		PCT Appl. No.: PCT/US02/29125 Int'l Filing Date: 9/12/02 Entitled: SYSTEM AND METHOD OF HANDWRITTEN CHARACTER RECOGNITION
AUB-03100 (2A09 1-070)	Adit Singh Thomas Barnett	Prov. Patent Appl. No.: 60/347,974 Filed: 10/19/01 Entitled: PROCESS TO ESTIMATE THE RELIABILITY OF INTEGRATED CIRCUITS WITH RESPECT TO EARLY-LIFE FAILURES AND OPTIMIZE STRESS TESTING

Attorney Docket No.:	Inventor(s)	Description
AUB-03101 (2A09 1-073)	Adit Singh Thomas Barnett	U.S. Patent Appl. No.: 10/274,439 Filed: 10/18/02 Entitled: <b>SYSTEM AND METHOD FOR ESTIMATING RELIABILITY OF COMPONENTS FOR TESTING AND QUALITY OPTIMIZATION</b>
AUB-03101WO (2A09 2-073)		PCT Appl. No.: PCT/US02/33451 Int'l Filing Date: 10/18/02 Entitled: <b>SYSTEM AND METHOD FOR ESTIMATING RELIABILITY OF COMPONENTS FOR TESTING AND QUALITY OPTIMIZATION</b>
AUB-03200 (2A09 1-071)	Adit Singh Thomas Barnett	Prov. Patent Appl. No.: 60/335,108 Filed: 10/23/01 Entitled: <b>PROCESS TO ESTIMATE THE RELIABILITY OF REDUNDANT CIRCUITS WITH RESPECT TO EARLY-LIFE FAILURES AND OPTIMIZE STRESS TESTING</b>
AUB-03300 (2A09 1-072)	Adit Singh Thomas Barnett	Prov. Patent Application No.: 60/366,109 Filed: 3/20/02 Entitled: <b>PROCESS TO ESTIMATE THE RELIABILITY OF INTEGRATED CIRCUITS WITH RESPECT TO EARLY-LIFE FAILURES AND OPTIMIZE STRESS TESTING</b>
AUB-03400	Ming-Kuo Lee James Saunders Samuel Nichols	CIP Patent Appl. No.: 10/865,572 Filed: 6/10/04 Entitled: <b>METHOD AND SYSTEM FOR FORMING AN IN SITU GROUNDWATER FILTER</b>

Attorney Docket No.:	Inventor(s)	Description
AUB-03400WO		<p>PCT Patent Appl. No.: PCT/US02/39541            Int'l Filing Date: 12/10/02            Entitled: <b>METHOD AND SYSTEM FOR FORMING            AN IN SITU GROUNDWATER FILTER</b></p>
AUB-03500  (2A09 1-092)	Bor Jan Jun Liu Shizu Chen Zhimin Li Hassan Mahfuz Ashfaq Adnan	<p>U.S. Patent No.: 6,934,600 B2            (application no. 10/389,261 filed 3/14/03)            Issued: 8/23/05            Entitled: <b>NANOTUBE FIBER REINFORCED            COMPOSITE MATERIALS AND METHOD            OF PRODUCING FIBER REINFORCED            COMPOSITES</b></p>
AUB-03600  (2A09 1-200)	Shelby Worley Yanjun Li	<p>Prov. Patent Appl. No.: 60/379,969            Filed: 5/10/02            Entitled: <b>HETEROCYCLIC AMINE DIOL            COMPOUNDS AND THEIR BIOCIDAL            DERIVATIVES</b></p>
AUB-03601  (2A09 1-201)	Shelby Worley Yanjun Li	<p>U.S. Patent Appl. No.: 10/190,897            Filed: 7/5/02            Entitled: <b>HETEROCYCLIC AMINE DIOL            COMPOUNDS AND THEIR BIOCIDAL            DERIVATIVES</b></p>
AUB-03601WO  (2A09 2-201)		<p>PCT Appl. No.: PCT/US03/314033            Int'l Filing Date: 5/2/03            Entitled: <b>HETEROCYCLIC AMINE DIOL            COMPOUNDS AND THEIR BIOCIDAL            DERIVATIVES</b></p>

Attorney Docket No.:	Inventor(s)	Description
AUB-03700 (2A09 1-101)		U.S. Patent Appl. No.: 10/444,802 Filed: 5/23/03 Entitled: <b>HANDHELD DEVICE FOR INTRUSIVE AND NON-INTRUSIVE FIELD MEASUREMENTS OF AIR PERMEABILITY OF SOIL</b>
AUB-03800 (2A09-110)		Prov. Patent Appl. No.: 60/412,738 Filed: 9/23/02 Entitled: <b>MAGNETICALLY ELEVATED RING SPINNING SYSTEM</b>
AUB-03800WO (2A09 2-110)		PCT Appl. No.: PCT/US03/30317 Int'l Filing Date: 9/23/03 Entitled: <b>MAGNETICALLY ELEVATED RING SPINNING SYSTEM</b>
AUB-03801 (2A09 1-111)	Faissal Abdel-Hady Yehia Elmoghaazy	U.S. Patent Appl. No.: 10/528,483 Filed: 3/22/05 Entitled: <b>RING-SPINNING SYSTEM FOR MAKING YARN HAVING A MAGNETICALLY-ELEVATED RING</b>
AUB-03900 (2A09 1-120)	Thomas Baginski	Prov. Patent Appl. No.: 60/444,433 Filed: 2/3/03 Entitled: <b>TRIGGERED HIGH VOLTAGE SWITCH</b>
AUB-03901 (2A09 1-121)	Thomas Baginski	U.S. Patent No.: 6,977,468 B1 (application no 10/770,134 filed 2/2/04) Issued: 12/20/05 Entitled: <b>INTEGRATED SPARK GAP DEVICE</b>

Attorney Docket No.:	Inventor(s)	Description
AUB-04000 (2P71-040)	Howard Thomas	Prov. Patent Appl. No.: 60/482,962 Filed: 6/27/03 Entitled: <b>LAYERED BALLISTIC-RESISTANT MATERIAL</b>
AUB-04001 (2P71-042)	Howard Thomas	U.S. Patent Appl. No.: 10/876,804 Filed: 6/25/04 Entitled: <b>LAYERED BALLISTIC-RESISTANT MATERIAL</b>
AUB-04001 WO (2P071-042)		PCT Patent Appl. No.: PCT/US04/020466 Int'l Filing Date: 6/25/04 Entitled: <b>LAYERED BALLISTIC-RESISTANT MATERIAL</b>
AUB-04100 (2P071-041)	Howard Thomas	Prov. Patent Appl. No.: 60/499,603 Filed: 9/2/03 Entitled: <b>LAYERED BALLISTIC R-RESISTANT MATERIAL</b>
AUB-04200 (2A093-010)		Trademark Registration No.: 2,974,015 (application no 78/317,418 filed 10/23/03) Registered: 7/19/05 Mark: <b>'MATERDIRT</b>
AUB-04201 (2A093-020)		Trademark Registration No.: 2,974,016 (application no. 78/317,419 filed 10/23/03) Registered: 7/19/05 Mark: <b>'MATERDIRT and design</b>

Attorney Docket No.:	Inventor(s)	Description
AUB-04300 (2A09 1-150)	Curtis Shannon Annette Howlls	Prov. Patent Appl. No.: 60/511,519 Filed: 10/15/03 Entitled: DI-RUTHENIUM-SUBSTITUTED POLYOXOMETALATE AS AN ELECTROCATALYST FOR WATER OXIDATION AND OXYGEN GENERATION
AUB-04301 (2A09 1-151)	Curtis Shannon Annette Howlls	U.S. Patent Appl. No.: 10/967,029 Filed: 10/15/04 Entitled: DI-RUTHENIUM-SUBSTITUTED POLYOXOMETALATE AS AN ELECTROCATALYST FOR WATER OXIDATION AND OXYGEN GENERATION
AUB-04400 (2A09 1-160)	Said Elnashaie Parag Garhyan	Prov. Patent Appl. No.: 60/515,262 Filed: 10/29/03 Entitled: NOVEL CHAOTIC FERMENTOR FOR THE EFFICIENT PRODUCTION OF FUEL ETHANOL
AUB-04401 (2A09 1-161)	Said Elnashaie Parag Garhyan	U.S. Patent Appl. No.: 10/978,293 Filed: 10/29/04 Entitled: CHAOTIC FERMENTATION OF ETHANOL
AUB-04500 (2A09 1-180)	Shelby Worley Yongjun Chen	Prov. Patent Appl. No.: 60/520,608 Filed: 11/17/03 Entitled: A BIOCIDAL SILOXANE COATING MATERIAL CONTAINING N-HALOGENATED AMINE AND AMIDE FUNCTIONAL GROUPS

Attorney Docket No.:	Inventor(s)	Description
AUB-04501	Shelby Worley Yongjun Chen Jie Liang Rong Wu Kevin Barnes Royall Broughton Unchin Cho Jaewoong Lee	U.S. Patent Appl. No.: 10/991,358 Filed: 11/17/04 Entitled: BIOCIDAL SILOXANE COATING MATERIAL CONTAINING N-HALOGENATED AMINE AND AMIDE FUNCTIONAL GROUPS
AUB-04501 WO		PCT Patent Appl. No.: PCT/US2004/038558 Int'l Filing Date: 11/17/04 Entitled: BIOCIDAL SILOXANE COATING MATERIAL CONTAINING N-HALOGENATED AMINE AND AMIDE FUNCTIONAL GROUPS
AUB-04600 (2A09 1-250)	Vitaly Vodyanoy Oleg Pustovyy	Prov. Patent Appl. No.: 60/563,175 Filed: 4/16/04 Entitled: ILLUMINATION SYSTEM FOR AN OPTICAL MICROSCOPE
AUB-04601 (2A09 1-234)	Vitaly Vodyanoy Oleg Pustovyy	U.S. Patent Appl. No.: 11/106,819 Filed: 4/15/05 Entitled: MICROSCOPE ILLUMINATION DEVICE AND ADAPTER THEREFOR
AUB-04601 WO (2A09 2-234)		PCT Patent Appl. No.: PCT/US2005/013054 Int'l Filing Date: 4/15/05 Entitled: MICROSCOPE ILLUMINATION DEVICE AND ADAPTER THEREFOR

Attorney Docket No.:	Inventor(s)	Description
AUB-04700 (2A09 1-230)	Vitaly Vodyanoy Thomas Hassling	Prov. Patent Appl. No.: 60/634,850 Filed: 12/10/04 Entitled: ULTRA-RESOLUTION IMAGING USING OBLIQUE FLUORESCENCE EXCITATION
AUB-04800 (2A09 1-231)	Vitaly Vodyanoy Oleg Pustovyy Thomas Hasling	Prov. Patent Appl. No.: 60/650,607 Filed: 2/7/05 Entitled: SYSTEM AND METHOD FOR ULTRA-RESOLUTION IMAGING IN COMBINATION WITH FLUORESCENCE MICROSCOPY
AUB-04900 (2A09 1-232)	Vitaly Vodyanoy	Prov. Patent Appl. No.: 60/655,805 Filed: 2/24/05 Entitled: SYSTEM AND METHOD FOR HIGH RESOLUTION LIGHT MICROSCOPY OF LIVE CELLS
AUB-05000 (2A09 1-233)	Vitaly Vodyanoy	Prov. Patent Appl. No.: 60/660,484 Filed: 3/10/05 Entitled: SYSTEM AND METHOD FOR ULTRA-RESOLUTION IMAGING IN COMBINATION WITH FLUORESCENCE MICROSCOPY
AUB-05100 (2A09 1-130)	Yoon Lee Htem Harraz	Prov. Patent Appl. No.: 60/576,103 Filed: 6/2/04 Entitled: PRODUCTION OF NON-CRYSTALLINE CELLULOSE FROM REFINED AND UNREFINED CELLUOSIC MATERIALS

Attorney Docket No.:	Inventor(s)	Description
AUB-05101 (2A09 1-131)	Yoon Lee Hatem Harraz	U.S. Patent Appl. No.: 11/142,936 Filed: 6/2/05 Entitled: NON-CRYSTALLINE CELLULOSE AND PRODUCTION THEREOF
AUB-05101WO (2A09 2-131)		PCT Patent Appl. No.: PCT/US2005/019548 Int'l Filing Date: 6/2/05 Entitled: NON-CRYSTALLINE CELLULOSE AND PRODUCTION THEREOF
AUB-05200 (2A09 1-220)	Vitaly Vodyanoy Charles Ellis Solomon Yilma Eleanor Josephson Bogdan Wilamowski Thomas Hasling	Prov. Patent Appl. No.: 60/647,649 Filed: 1/27/05 Entitled: SYSTEM AND METHOD FOR PATCH CLAMP ANALYSIS
AUB-05300 (2A09 1-140)	Christopher Roberts Marshall McLeod	Prov. Patent Appl. No.: 60/613,249 Filed: 9/27/04 Entitled: CO2-EXPANDED LIQUID DEPOSITION OF LIGAND STABILIZED NANOPARTICLES AS UNIFORM, WIDE AREA NANOPARTICLE FILMS
AUB-05301 (2A09 1-143)	Christopher Roberts Marshall McLeod Madhu Anand	U.S. Patent Appl. No.: 11/237,601 Filed: 9/27/05 Entitled: SELECTION AND DEPOSITION OF NANOPARTICLES USING CO2-EXPANDED LIQUIDS

Attorney Docket No.:	Inventor(s)	Description
AUB-05301 WO (2A09 2-143)		PCT Patent Appl. No.: PCT/US2005/034970 Int'l Filing Date: not yet given Entitled: SELECTION AND DEPOSITION OF NANOPARTICLES USING CO2-EXPANDED LIQUIDS
AUB-05400 (2A09 1-141)	Christopher Roberts Marshall McLeod Madhu Anand	Prov. Patent Appl. No.: 60/613,562 Filed: 9/27/04 Entitled: PRECISE AND RAPID SIZE SELECTION OF NANOPARTICLE POPULATIONS USING CO2 GAS EXPANDED LIQUIDS
AUB-05500 (2A09 1-142)	Christopher Roberts Madhu Anand Marshall McLeod	Prov. Patent Appl. No.: 60/708,685 Filed: 8/15/05 Entitled: TUNABLE SOLVATION EFFECTS ON THE SIZE SELECTIVE FRACTIONATION OF METAL NANOPARTICLES IN CO2 GAS EXPANDED SOLVENTS

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